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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/385,589	08/29/1999	GARY L. GRAUNKE	42390.P7574	9393	
75	90 03/16/2004	EXAMINER			
ALOYSIUS T C AUYEUNG			GURSHMAN, GRIGORY		
22	KOLOFF TAYLOR & ZA RE BOULEVARD	ART UNIT	PAPER NUMBER		
7TH FLOOR			2132	19	
LOS ANGELES	S, CA 90025		DATE MAILED: 03/16/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
_ Advisory Action	09/385,589	GRAUNKE ET AL.
, navious, nation	Examiner	Art Unit
	Grigory Gurshman	2132
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence address
THE REPLY FILED FAILS TO PLACE THIS APP Therefore, further action by the applicant is required to final rejection under 37 CFR 1.113 may <u>only</u> be either: (*condition for allowance; (2) a timely filed Notice of Appel Examination (RCE) in compliance with 37 CFR 1.114.	 a timely filed amendment whi 	cation. A proper reply to a ch places the application in
PERIOD FOR RE	PLY [check either a) or b)]	
a) The period for reply expiresmonths from the mailing of b) The period for reply expires on: (1) the mailing date of this Adverse, will the statutory period for reply expire later the ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The data have been filed is the date for purposes of determining the period of extensions of the status of the shortened by above, if checked. Any reply received by the Office later than three most partner adjustment. See 37 CFR 1.704(b).	risory Action, or (2) the date set forth in the an SIX MONTHS from the mailing date of FILED WITHIN TWO MONTHS OF THI te on which the petition under 37 CFR 1.1 sion and the corresponding amount of the I statutory period for reply originally set in	f the final rejection. E FINAL REJECTION. See MPEP 136(a) and the appropriate extension fee efee. The appropriate extension fee under the final Office action; or (2) as set forth in
1. A Notice of Appeal was filed on <u>04 March 2004</u> . Ap 37 CFR 1.192(a), or any extension thereof (37 CF		
2. The proposed amendment(s) will not be entered be	ecause:	
(a) They raise new issues that would require further	er consideration and/or search (see NOTE below);
(b) ☐ they raise the issue of new matter (see Note by	pelow);	
(c) they are not deemed to place the application i issues for appeal; and/or	in better form for appeal by mat	erially reducing or simplifying the
(d) they present additional claims without cancel NOTE:	ing a corresponding number of	finally rejected claims.
3. Applicant's reply has overcome the following rejection	etion(s):	
 Newly proposed or amended claim(s) would canceling the non-allowable claim(s). 	be allowable if submitted in a s	eparate, timely filed amendment
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request fo application in condition for allowance because: se		idered but does NOT place the
6. The affidavit or exhibit will NOT be considered becaused by the Examiner in the final rejection.	cause it is not directed SOLELY	to issues which were newly
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we		
The status of the claim(s) is (or will be) as follows:		
Claim(s) allowed:		
Claim(s) objected to:		
Claim(s) rejected: 1-15 and 17-30		
Claim(s) withdrawn from consideration:		
8. The proposed drawing correction filed on is	a) approved or b) disapp	proved by the Examiner.
9. Note the attached Information Disclosure Stateme	nt(s)(PTO-1449) Paper No(s)	
10. ☐ Other:	Selsenti	3-
	GILBERTO BAF	0
	Supervisory Paten' Technology Cen'	

U.S. Patent and Trademark Office PTOL-303 (Rev. 04-01)



Applicant has not submitted any amendments.

Referring to claims 1-15 and 28-30, Applicant argues that the combination of references fails to meet prima facie case for 103(a) rejection. Applicant states that Wasilevski does not teach using the outputs of encryptor 154 as control signals to combiner 156. Examiner respectfully disagrees and points out that he uses broad but reasonable interpretation of the limitation "control signal". Wasilevskiy shows in Fig. 5 that signals from encryptor is being input in combiner where it controls the process.

Examiner maintains that the combination of Wasilevskiy and Richard meets the prima facie case of obviousness because, at the time the invention was made, it would have been obvious to one of ordinary skill in the art to modify the combiner coupled to a data bit generator of Wasilewski by adding the shuffle units as taught in Richard. One of ordinary skill in the art would have been motivated to modify the combiner coupled to a data bit generator by adding the shuffle units as taught in Richard for providing the fully encoded signal (see Richard, abstract and column 2, lines 56-60).

Referring to claims 17-27, Applicant argues that the combination of references fails to meet prima facie case for 103(a) rejection. Examiner mainains his position and points out that Shukla teaches XOR operations along with shuffling data blocks (see column 2. lines 55-56). Referring to the independent claim 17, the limitation "a first XOR gate to receive a first plurality of data bits and combine them into a second data bit" is met by XOR operation of the data block D with the string S to obtain a new data block D1(see column 3, lines 12-14). The limitation "a network of shuffle units, coupled to the first XOR gate, to output a third data bit by shuffling and propagating the second data bit through the network of shuffle units" is met by the second operation, which shuffles the bits of the data block D1 to obtain a new data block D2 (see column 3, lines 14 -16). The limitation " a second XOR gate coupled to the network of shuffle units to combine a fifth plurality of data bits using the third data bit" is met by the a second type of XOR that uses the bits of the data block D2 and produces the data block D3 (see column 3, lines 16-18). Shukla explicitly shows the limitations, recited in the independent claim 17, in Fig. 3. Shukla shows the use of shuffle units (see Fig. 3). Shukla, however, does not explicitly teach shuffle unit comprising flip-flops for state values. Richard teaches the means for combining the generated bit sequence with a clear text data bit signal and shuffling means, which receives the encoded signal and shuffles the positions of the bits within the signal (see column 2, lines 50 -57 and Fig. 4A unit 160). Richard also teaches a shuffle unit, which comprises flip-flops (see unit 164 in Fig 4A and units 73 and 74 in Fig 2A) coupled to selectors (units 70, 71, 75 and 72 in Fig 2A). Therefore, at the time the invention was made, it would have been obvious to one of ordinary skill in the art to modify the shuffle units coupled to XOR gates of Shukla by adding the flip-flops coupled to the selectors as taught in Richard. One of ordinary skill in the art would have been motivated to modify the shuffle units coupled to XOR gates by adding the flip-flops coupled to the selectors as taught in Richard for controlling the mode of operation of Shuffle Register. Claims 1-15 and 17-30 stand rejected per Final Office action.